

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
19 February 2004 (19.02.2004)

PCT

(10) International Publication Number
WO 2004/014422 A1

- (51) International Patent Classification⁷: **A61K 39/395**, A61P 37/06
- (74) Agents: HUGHES, E, John, L et al.; Davies Collison Cave, 1 Little Collins Street, Melbourne, Victoria 3000 (AU).
- (21) International Application Number:
PCT/AU2003/001011
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: 8 August 2003 (08.08.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
2002950658 8 August 2002 (08.08.2002) AU
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LJ, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- (71) Applicant (*for all designated States except US*): THE CORPORATION OF THE TRUSTEES OF THE ORDER OF THE SISTERS OF MERCY IN QUEENSLAND [AU/AU]; Raymond Terrace, South Brisbane, Queensland 4101 (AU).
- (72) Inventor; and
- (75) Inventor/Applicant (*for US only*): HART, Derek [NZ/AU]; 3 Borva Street, Dutton Park, Queensland 4102 (AU).
- Published:
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: A METHOD OF IMMUNOMODULATION

(57) ~~Abstract:~~ The present invention relates generally to a method for modulating the immuno-activity of an antigen-presenting cell and agents useful therefor. More particularly, the present invention relates to a method for preventing or down-regulating one or more functional activities of a dendritic cell. The present invention further provides antibodies and, in particular, monoclonal antibodies, which interact specifically with epitopes present on the surface of dendritic cells, resulting in depletion, down-regulation or destruction of targeted dendritic cell in vivo or in vitro. The instant invention further provides a method for modulating an immune response in a subject and, in particular, for down-regulating the immuno-activity of an allogeneic immuno-competent graft and/or the immune response of a recipient of a solid organ transplant. The ability to modulate dendritic cell immuno-activity may be useful, inter alia, in a range of immuno-therapeutic and immuno-prophylactic treatments that benefit from immune suppression.

WO 2004/014422 A1